

**ILLUMINATED AND NON-ILLUMINATED PHOTODIODES FOR MONITORING
AND CONTROLLING AC AND DC COMPONENTS OF A LASER BEAM**

ABSTRACT OF THE DISCLOSURE

[0059] Embodiments of the present invention utilize two photodiodes on the same substrate, one illuminated monitor photodiode to monitor an optical beam out of a back facet (or back scattered) of a laser, and one non-illuminated reference photodiode to characterize in real time radio frequency (RF) parameters/performance to control extinction ratio and optical modulation amplitude of the laser beam.